

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended) A catalyst for use in the Fischer-Tropsch process, said catalyst comprising a catalyst particle, which comprises at least one metal that is an efficient carbon monoxide adsorber and at least one promoter dispersed on a support to form said catalyst particle, said particle having a BET surface area of from about $100 \text{ m}^2/\text{g}$ to about $250 \text{ m}^2/\text{g}$, and said metal and said promoter are dispersed on the support such that said catalyst has a metal oxide crystallite size of the metal oxide is of from about 40 \AA to about 200 \AA , and said catalyst particle having an essentially smooth, homogeneous surface morphology.

Claim 2 (original) The catalyst of Claim 1 wherein said particle comprises from about 5 wt % to about 60 wt % cobalt, and from about 0.0001 wt % to about 1 wt % of a first promoter, and from about 0.01 wt % to about 5 wt % of a second promoter.

Claim 3 (original) The catalyst of Claim 2 wherein said particle comprises from about 10 wt% to about 30 wt % cobalt, and from about 0.01 wt % to about 0.05 wt % of said first promoter, and from about 0.1 wt % to about 1 wt % of said second promoter.

Claim 4 (original) The catalyst of Claim 1 wherein said metal is selected from the group consisting of nickel, cobalt, iron, ruthenium, osmium, platinum, palladium, iridium, rhenium, molybdenum, chromium, tungsten, vanadium, rhodium, copper, zinc, and combinations thereof.

Claim 5 (original) The catalyst of Claim 4 wherein said metal is cobalt.

Claim 6 (previously presented) The catalyst of Claim 1 wherein said promoter is selected from the group consisting of boron, cerium, chromium, copper, iridium, iron, lanthanum, manganese, molybdenum, palladium, platinum, rhenium, rhodium, ruthenium, strontium, tungsten, vanadium, zinc, sodium oxide, potassium oxide, rubidium oxide, cesium oxide, magnesium oxide, titanium oxide, zirconium oxide, scandium, yttrium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium, other rare earth metals and combinations thereof.

Claim 7 (original) The catalyst of Claim 2 wherein said first promoter is selected from the group consisting of palladium, platinum, ruthenium, rhenium, rhodium, iridium and a combination thereof; and said second promoter is selected from the group consisting of potassium, boron, cesium, lanthanum, cerium, strontium, scandium, yttrium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium, palladium, platinum, ruthenium, rhenium, rhodium, iridium and combinations thereof.

Claim 8 (original) The catalyst of Claim 1 wherein said support is selected from the group consisting of aluminum oxide, γ -alumina, alumina monohydrate, alumina trihydrate, alumina-silica, magnesium silicate, silica, silicate, silicalite, γ -zeolite, mordenite, titania, thoria, zirconia, niobia, hydroxalcalite, kieselguhr, attapulgite clay, zinc oxide, other clays, other zeolites and combinations thereof.

Claim 9 (original) The catalyst of Claim 8 wherein said support is γ -alumina.

Claim 10 (original) The catalyst of Claim 9 wherein said support has a particle size of from about 60 μm to about 150 μm , a surface area of from about 90 m^2/g to about 210 m^2/g , a pore volume of from about 0.35 ml/g to about 0.50 ml/g , and a pore diameter of from about 8 nm to about 20 nm .

Claims 11 – 46 (cancelled)